

**AMENDMENTS TO THE CLAIMS:**

**Please amend the claims as follows:**

1. (Canceled)

2. (Currently Amended) ~~The~~ A luminous body with a prolonged fluorescence lifetime ~~according to claim 1, characterized in that said~~ wherein the luminous body comprises silicate-germanate and is doped with europium to improve its thermostability, wherein the luminous body comprises an additional dopant and corresponds to the empirical formula:



wherein:

M' represents one or more elements selected from the group consisting of calcium (Ca), strontium (Sr), barium (Ba), and zinc (Zn);

M'' represents one or more elements selected from the group consisting of magnesium (Mg), cadmium (Cd), manganese (Mn), and beryllium (Be);

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

X represents an ion selected from the group consisting of fluorine (F), chlorine (Cl), and bromine (Br) to balance the charge;

and

$$0.5 \leq a \leq 8,$$

$$0 \leq b \leq 5,$$

$$0 < c \leq 10,$$

$$0 \leq d \leq 2,$$

$$0 \leq e \leq 2,$$

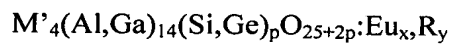
$$0 \leq n \leq 4,$$

$$0 \leq x \leq 0.5,$$

$$0 \leq y \leq 0.5, \text{ and}$$

$$0 \leq z \leq 1.$$

3. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim 1, characterized in that said wherein the luminous body comprises aluminate-gallate and is doped with europium to improve its thermostability, wherein the luminous body comprises an additional dopant and corresponds to the empirical formula:



wherein:

M' represents one or more elements selected from the group consisting of Sr, Ba, Ca,

Mg, and Zn;

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

and

$$0 < p \leq 1, \text{ or}$$

the empirical formula



wherein:

M'' represents one or more elements selected from the group consisting of Sr, Ba, Ca, Mg, and Zn;

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

and

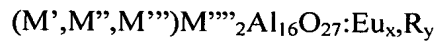
$$0 < p \leq 1,$$

$$0 \leq x \leq 0.5, \text{ and}$$

$$0 \leq y \leq 0.5.$$

4. (Currently Amended) The luminous body with a prolonged fluorescence lifetime

according to claim 1, characterized in that said wherein the luminous body further comprises aluminate and is doped with europium to improve its thermostability, wherein the luminous body comprises an additional dopant and corresponds to represented by the empirical formula:



wherein:

M' represents one or more elements selected from the group consisting of Ba, Sr, and Ca;

M'' represents one or more elements selected from the group consisting of lithium (Li), sodium (Na), potassium (K), and rubidium (Rb);

M''' represents Dy;

M'''' represents Mg or Mn;

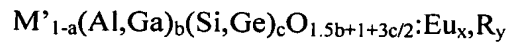
R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

$0 < x \leq 0.5$ , and

$0 \leq y \leq 0.5$ .

5. (Currently Amended) The A luminous body with a prolonged fluorescence lifetime according to claim 1, characterized in that said wherein the luminous body comprises alkaline earth metal aluminate-gallate and is doped with europium to improve

its thermostability, wherein the luminous body comprises an additional dopant and corresponds to the empirical formula:



wherein:

M' represents one or more elements selected from the group consisting of Ca, Sr, Ba, and Mg;

R represents one or more elements selected from the group consisting of La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Bi, Sn, and Sb;

and

$$0 \leq a \leq 1,$$

$$0 \leq b < 10,$$

$$0 \leq c \leq 8,$$

$$0 \leq x \leq 0.5, \text{ and}$$

$$0 \leq y \leq 0.5.$$

6. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim 1, characterized in that ~~wherein the luminous body is in the form of~~ comprises a single type or a mixture of two or more types.

7. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim +2, ~~characterized in that said~~ wherein the luminous body is used as a luminous layer in the preparation of ~~LED~~ a light-emitting diode (LED).

8. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim +2, ~~characterized in that said~~ wherein the luminous body is used in a layer which emits light ranging from colored light to white light in ~~LED~~ a light-emitting diode (LED).

9. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim +2, ~~characterized in that said~~ wherein the luminous body is used in ~~LED~~ a light-emitting diode (LED) which, upon switch-off of excitation energy of a luminous layer, causes a color change in emission of a radiation.

10. (Currently Amended) The luminous body with a prolonged fluorescence lifetime according to claim +2, ~~characterized in that said~~ wherein the luminous body ~~is in the form of~~ comprises a single type or a mixture of two or more types and is used in the preparation of a luminous layer of a compact energy saving lamp.

11. (Currently Amended) An optical device comprising a wavelength converting part comprising the luminous body as defined by claim 2.

~~a luminous body which emits light upon excitation based on light emitted from an LED element;~~

~~—— characterized in that said wavelength converting part comprises a luminous body comprising an activator and further at least one coactivator selected from the group consisting of lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), samarium (Sm), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), bismuth (Bi), tin (Sn), antimony (Sb) and analogues thereof as an additional luminescent center for enhancing the thermostability;~~

~~—— wherein the luminous body comprises zinc (Zn).~~

12. (Currently Amended) An optical device characterized by comprising:

~~an LED light-emitting diode (LED) element;~~

~~a power feeding part for mounting said the LED element thereon and feeding power to said the LED element;~~

~~a light transparent sealing part for sealing said the LED element and said the power feeding part integrally with each other; and~~

a wavelength converting part for emitting light upon excitation based on light emitted from ~~said~~the LED element, ~~said~~the wavelength converting part comprising a the luminous body as defined by claim 2. ~~comprising an activator and further at least one coactivator selected from the group consisting of lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), samarium (Sm), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), bismuth (Bi), tin (Sn), antimony (Sb) and analogues thereof as an additional luminescent center for enhancing the thermostability;~~  
~~wherein the luminous body comprises zinc (Zn).~~

13. (Currently Amended) An optical device ~~characterized by comprising:~~  
an ~~LED~~light-emitting diode (LED) lamp;  
a light guiding part for guiding light emitted from ~~said~~the LED lamp; and  
a wavelength converting part for emitting light upon excitation based on light guided through ~~said~~the light guiding part, ~~said~~the wavelength converting part comprising a~~the~~ luminous body as defined by claim 2.  
~~an activator and further at least one coactivator selected from the group consisting of lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), samarium (Sm), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho),~~



~~erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), bismuth (Bi), tin (Sn),  
antimony (Sb) and analogues thereof as an additional luminescent center for enhancing  
the thermostability; and  
—— a lighting part for lighting based on light emitting through said wavelength  
converting part;  
—— wherein the luminous body comprises zinc (Zn).~~

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Currently Amended) The optical device according to claim 12, ~~characterized in~~  
~~that said~~wherein the wavelength converting part is included in ~~said~~a light transparent sealing  
resin for sealing ~~said~~the LED element.

19. (Currently Amended) The optical device according to claim 12, ~~characterized in that said~~wherein the luminous body ~~is~~comprises a thin-film luminous body layer that is sealed with ~~said~~a light transparent glass.

20. (Currently Amended) The optical device according to claim 19, ~~characterized in that said~~wherein the luminous body layer is planar.

21. (Currently Amended) The optical device according to claim 12, ~~characterized in that said~~wherein the wavelength converting part is provided on a surface of ~~the~~a sealing resin ~~having~~comprising an optical shape that radiates light emitted from ~~said~~the LED element in a desired lighting area.

22. (Currently Amended) The optical device according to claim 11, ~~characterized in that said~~wherein the wavelength converting part is excited upon exposure to blue light and/or ultraviolet light with wavelengths ranging from 300 nm to 500 nm.